

Premise™ Trimodal Composite Resin System (Project 04-13) (1/05)

Premise™ is a new nanofilled resin composite by Kerr Corporation suitable for all classes of restorations. The restorative composite contains differently-sized fillers, the company claims, to optimize polish, handling, and strength, and to reduce polymerization shrinkage. The ethoxylated Bis-GMA resin is 84% filled by weight with three different filler types (i.e., non-agglomerated silica nanoparticles, prepolymerized filler, 0.4-micron barium glass). Thirty-three shades are available in various body, opaque, translucent, and packable versions in syringes or unit-dose capsules.



Manufacturer:

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Suggested Retail Price:

\$435.00 Master Unidose Kit (item no. 32612) contains:

- 16 body, opaque, and packable shades
- Optibond Solo Plus® bonding agent
- phosphoric acid etchant or self-etch primer
- Optiguard® surface sealant
- shade guides
- polishing kit
- applicators, syringe tips, and mixing wells

Government Price:

\$247.00 Master Unidose Kit (item number and contents as listed above)

ADVANTAGES:

- + Handles well
- + Excellent polishability and overall esthetics
- + Master Kit comes with 16 shades in three opacities and two viscosities
- + Adequate degree of radiopacity
- + Extra light bleaching shades available
- + Moderate polymerization shrinkage
- + Shade printed on individual capsules
- + Packaging maintains capsules in individual containers

DISADVANTAGES:

- Relatively expensive refills
- Relatively lower hardness and strength
- No dispensing gun provided with Master Kit
- Lot number and expiration date not printed on individual capsules
- Storage conditions not printed on box or containers
- Material Safety Data Sheet (MSDS) not provided with kit

SUMMARY AND CONCLUSIONS:

The Master Unidose Kit comes with 160 unidose capsules in 16 shades in three opacities and two viscosities. The kit also comes with bonding agent, polishing discs and shade guide, however, no dispensing gun is provided. Premise™ was rated highly for handling, polishability, esthetics, and shade matching by clinical evaluators. The government price per gram of refill composite was the second highest of all composite resins recently evaluated by DIS. Laboratory testing found the hardness and flexural strength values of Premise™ to be relatively low among recently tested hybrid composites. All of the evaluators rated the composite resin as "excellent" or "good" and would consider its purchase for their clinic. **Premise™** is rated **Acceptable** for use by the federal dental services.